Experimental NELAC PT Fields of Proficiency Testing with PTRLs Non-Potable Water (NPW)

Effective June 1, 2005

Matrix	EPA	NELAC	Analyte ¹	Conc Range	Acceptance Criteria 2,3,4,5				NELAC PTRI
	Analyte	Analyte							
	Code	Code			а	b	С	d	
			Mina Auglidan						
NPW		4500	Misc. Analytes	mg/L	0.0700	0.7000	0.0400	44.0000	mg/L
		1500	Acidity, as CaCO3	650 to 1800	0.9782	6.7633	0.0188	14.2368	560
NPW		1540	Bromide	1.0 to 10	±15% fixed acceptance limit ±10 PC units fixed acceptance llimit				0.85
NPW		1605	Color	10 to 75 PC units		9.0			
NPW		1965	Settleable solids	5.0 to 100 mL/L	1.0490	-0.3874	0.0718	0.3160	2.8
NPW		1970	Volatile solids	100 to 500			11.9327	56	
NPW		1990	Silica as SiO2	50 to 250	±25% fixed acceptance limit				37
NPW		2045	Total Organic Halides (TOX)	300 to 1500 μg/L	0.9597	9.3217	0.0417	21.1383	190
NPW		2055	Turbidity	1.0 to 20 NTU	0.9823	0.0574	0.0373	0.0992	0.63
			Pesticides ¹	μg/L					μg/L
NPW		7075	Azinphos-methyl (Guthion)	3.6 to 13.8	0.9225	-0.0223	0.2210	0.4865	0.36
NPW		7410	Diazinon	2.0 to 15	0.9026	0.2226	0.1796	0.0510	0.80
NPW		7535	Endrin ketone	2.0 to 10	±45% fixed acceptance limit			1.1	
NPW			Malathion	2.0 to 20			0.1720	0.20	
NPW		7955	Parathion, ethyl	3.0 to 20	0.0000	±45% fixed acceptance limit			1.6
			Herbicides ¹	μg/L					μg/L
NPW		8625	Disulfoton	2.0 to 15	0.8954	0.0165	0.2437	0.0036	0.33
			Volatile Halocarbons ¹	μg/L					μg/L
NPW		4630	1,1-Dichloroethane	15 to 150	1.0369	-0.5201	0.1127	0.0775	9.7
NPW		4645	cis-1,2-Dichloroethylene	15 to 150	1.0377	-0.6523	0.0949	0.3468	9.6
NPW		4680	cis-1,3-Dichloropropene	15 to 100	±30% fixed acceptance limit			10	
NPW				0.3446	8.0				
NPW		5000	Methyl tert-butyl ether (MTBE)	15 to 100	1.0121	0.4001	0.1183	0.6608	8.2
			1						
			Acids ¹	µg/L					μg/L
NPW		6005	2,6-Dichlorophenol	40 to 190	0.7853	1.0464	0.1383	1.5069	11
			Petroleum Hydrocarbons	μg/L					μg/L
NPW		9369	Diesel range organics (DRO)	500 to 4000	0.7700	-8.2807	0.1644	32.2339	50
NPW		9408	Gasoline range organics (GRO)	200 to 4000	1.0682	21.3958	0.2285	2.4231	90

Experimental NELAC PT

Fields of Proficiency Testing with PTRLs Non-Potable Water (NPW) Effective June 1, 2005

Matrix	EPA	NELAC	Analyte ¹	Conc Range	Acceptance Criteria 2,3,4,5				NELAC PTRL
	Analyte	Analyte							
	Code	Code			а	b	С	d	
			Low Level PAHs ¹	μg/L					μg/L
NPW		5500	Acenaphthene	2.0 to 10	0.8607	-0.0908	0.0631	0.3302	0.26
NPW		5505	Acenaphthylene	2.0 to 10	0.8469	-0.0392	0.1019	0.0899	0.77
NPW		5555	Anthracene	0.5 to 2.0	0.8151	0.0194	0.1714	0.0115	0.13
NPW		5575	Benzo(a)anthracene	0.3 to 2.0	0.8522	0.0273	0.0543	0.0405	0.11
NPW		5580	Benzo(a)pyrene	0.5 to 2.0	0.7556	0.1048	0.0956	0.0600	0.16
NPW		5585	Benzo(b)fluoranthene	0.3 to 2.0	0.7717	0.0825	0.1286	0.0093	0.17
NPW		5590	Benzo(g,h,i)perylene	0.3 to 2.0	0.8053	0.0322	0.1605	0.0011	0.12
NPW		5600	Benzo(k)fluoranthene	0.3 to 2.0	0.8841	-0.0021	0.0895	0.0273	0.10
NPW		5855	Chrysene	0.3 to 2.0	0.9181	0.0114	0.1133	0.0081	0.16
NPW		5895	Dibenz(a,h)anthracene	0.5 to 2.0	0.7914	0.0640	0.1377	0.0520	0.10
NPW		6265	Fluoranthene	0.3 to 2.0	0.8938	0.0038	0.0873	0.0225	0.12
NPW		6270	Fluorene	2.0 to 10	0.7919	0.0758	0.1063	0.1035	0.71
NPW		6315	Indeno(1,2,3-cd)pyrene	0.5 to 2.0	0.8210	0.0421	0.1293	0.0018	0.25
NPW		5005	Naphthalene	2.0 to 10	0.6998	0.1654	0.0745	0.2825	0.27
NPW		6615	Phenanthrene	0.3 to 2.0	0.8150	0.0542	0.0985	0.0232	0.14
NPW		6665	Pyrene	0.3 to 2.0	0.8757	0.0222	0.0809	0.0252	0.13
			Low Level Nitroaromatic and Nitroamines ¹	μg/L					μg/L
NPW		9306	4-Amino-2,6-dinitrotoluene	1.0 to 20	±45% fixed acceptance limit			0.55	
NPW		9303	2-Amino-4,6-dinitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		6160	1,3-Dinitrobenzene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		6185	2,4-Dinitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		6190	2,6-Dinitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		9522	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		5015	Nitrobenzene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		9507	2-Nitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		9510	3-Nitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		9513	4-Nitrotoluene	1.0 to 20	±45% fixed acceptance limit				0.55
NPW		9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	1.0 to 20	±45% fixed acceptance limit			0.55	
NPW		6415	Tetryl (methyl-2,4,6-trinitrophenylnitramine)	1.0 to 20		0.55			
NPW		6885	1,3,5-Trinitrobenzene	1.0 to 20		0.55			
NPW		9651	2,4,6-Trinitrotoluene	1.0 to 20	±45% fixed acceptance limit			0.55	

				perimental NELAC P					
				roficiency Testing wi					
				n-Potable Water (NPV	V)				
			E1	ffective June 1, 2005					
Matrix	EPA	NELAC	Analyte ¹	Conc Range		Acceptance Criteria 2,3,4,5			
	Analyte	Analyte	,	- J		· ·			
	Code	Code			а	b	С	d	
1) For vola	tiles, pest	icides, acids, herb	cides, PAHs and Nitroaromatics/Nitramin	nes standards, providers must i	nclude				
a minimun	number o	of analytes using t	ne same criteria described in Chapter 2, A	Appendix B, Section B.1.2.					
			EPA's National Standards for Water Pro-				Acceptance		
criteria for	FOTs not	included in the Na	tional Standards are presented in this tal	ole. Acceptance limits are set a	at the Mean ± 3	SD			
			is the assigned value).						
			·						
3) If the lo	wer accep	tance limit genera	ed using the criteria contained in this tab	le is less than (<) 10% of the as	ssigned value, t	he lower accept	tance limits are s	et	
at 10% of	the assign	ed value with the	exception of microbiology analytes.						
4) If the lo	wer accep	tance limit genera	ed using the criteria contained in this tab	le is greater than 90% of the as	signed value, th	ne lower accept	tance limits are s	et	
at 90% of	the assign	ed value with the	exception of microbiology analytes.						
5) If the up	per accep	tance limit genera	ted using the criteria contained in this tab	le is less than 110% of the ass	igned value, the	upper accepta	ance limits are se	t	
at 110% o	f the assig	ned value with the	exception of microbiology analytes.			Τ.			
6) NELAC	Proficienc	y Testing Reportir	g Limits (PTRLs) are provided as guidan	ce to laboratories analyzing NE	LAC PT sample	es. These leve	Is are the lowest		
			ed from the lowest spike level for each ar						
t is recogi	nized that i	n some cases (es	pecially for analytes that typically exhibit I	low recovery) the PTRL may be	below the star	dard laboratory	/ reporting		
imit. How	ever, the l	aboratory should u	ise a method that is sensitive enough to	generate results at the PTRL sh	nown. NELAC F	PTRLs are also	provided as		
guidance t	o PT Prov	iders. At a minimu	ım for all analytes with an assigned value	e equal to "0", the PT Provider s	should verify tha	t the sample do	oes not contain		
			han or equal to the PTRL.						
			•						